

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re patent application of:)	
Pak C. Wong et al.)	Before the Examiner
C)	
Application No.: 10/688,063)	Group Art Unit 2621
Filed: October 17, 2003)	2021
DYNAMIC VISUALIZATION OF)	
DATA STREAMS)	

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Pursuant to the duty of disclosure in accordance with 37 C.F.R. §1.56, Applicants wish to bring to the attention of the Examiner the items of information listed on the enclosed Information Disclosure Citation Form. This information has not been previously submitted in this application, and has not been cited previously by the Examiner.

"Express Mail" Label No. EV 432598382 US Date of Deposit: 8 APRIL 2004

I hereby certify that this correspondence is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR §1.10 on the date indicated above and is addressed to the Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450.

Signature of person mailing paper or fe

Information Disclosure Statement Inventor: Pak C. Wong et al. Application No. 10/688,063 Filed: October 17, 2003 Our Ref: 50005-149 Page 1 of 2

The filing of this Information Disclosure Statement shall not be construed as an admission that the information cited is, or is considered to be, prior art or material to

patentability as defined in §1.56(b).

This Statement is being submitted under 37 CFR 1.97(b) before the occurrence of one or

more of the following: (a) receipt of a First Office Action on the merits, (b) passage of three (3)

months from the application filing date, or passage of three (3) months from the date of entry of

the national stage. Accordingly, it is believed that no fee is due. However, should any fee be

required, please charge such fee to Deposit Account No. 23-3030, but not to include any

payment of issue fees.

Respectfully submitted:

L. Scott Paynter

Reg. No. 39,797

Woodard, Emhardt, Moriarty, McNett & Henry

Bank One Center Tower

111 Monument Circle, Suite 3700

Indianapolis, Indiana 46204-5137

(317) 634-3456

Information Disclosure Statement Inventor: Pak C. Wong et al. Application No. 10/688,063 Our Ref: 50005-149

Page 2 of 2

WEMMH/SB/08A (4/03)

Approved for use through 10/31/2002. OMB 0651-0031 U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of

	Complete if Known
Application Number	10/688,063
Filing Date	October 17, 2003
First Named Inventor	Pak C. Wong
Group Art Unit	2621
Examiner Name	
Attornev Docket Number	50005-149

U.S. PATENT DOCUMENTS							
Examiner Initials*	Cite No.1	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Application of Cited Document	Pages, Columns, Lines where Relevant Passages or Relevant		
111111111111111111111111111111111111111	. 110.	Number-Kind Code ² (If known)			Figures Appear		
		US-4,839,853	6/13/1989	Deerwester et al.			
		US-5,175,710	12/29/1992	Hutson			
		US-5,761,685	6/2/1998	Huston			
		US-6,021,215	2/1/2000	Kornblit et al.			
		US-6,070,133	5/30/2000	Brewster et al.			
		US-6,097,399	8/1/2000	Bhatt et al.	·		
		US-6,134,555	10/17/2000	Chadha et al.			
		US-6,301,579	10/9/2001	Becker			
·		US-6,539,126	3/25/2003	Socolinsky et al.			
		US-6,571,227	5/27/2003	Agrafiotis et al.			
		US-6,615,211	9/2/2003	Beygelzimer et al.			
		US-2001/0049678	12/6/2001	Yaginuma			

Examiner	Cite	Foreign Patent Document	Publication Date	Name of Patentee or Application of Cited	Pages, Columns, Lines, Where Relevant Passages or Relevant	⊤ 6
Initials*	No.¹	Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	MM-DD-YYYY	Document	Figures Appear	
		PCT – WO 99/34316	July 8, 1999	Glickman et al.		
		PCT - WO 00/39705	July 6, 2000	Glickman et al.		
0						

Examiner Signature	Date Considered	

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.s. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the emperor must precede the serial number of the patent document. ³ Kind of document by the apopropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

WEMMH/SB/08B (4/03)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substituto	for form 1440P	/DTO		Complete if Known			
Substitute for form 1449B/PTO				Application Number	10/688,063		
INFORMATION DISCLOSURE				Filing Date	October 17, 2003		
STATEMENT BY APPLICANT		First Named Inventor	Pak C. Wong				
				Group Art Unit	2621		
(use as many sheets as necessary)			ecessary)	Examiner Name			
Sheet	2	of	3	Attorney Docket Number	50005-149		

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS						
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s) publisher city and/or country where published	T²			
		Research Report: Visualizing Decision Table Classifiers; Becker (date unknown)				
		MineSet; Website, Silicon Graphics, Inc. (1993-2000)				
		Data Mining; IBM Website (date unknown)				
		Visual Data Mining; Pak Chung Wong, IEEE Computer Graphics and Applications, September/October (1999)				
		MineSet Business Solutions Using Data Mining and Visualization; www.sgi.com/go/mineset/ (1998)				
		MineSet 2.6; www.sgi.com/go/mineset/ (1998)				
		Clumping Properties of Content-Bearing Words, Bookstein, Klein, Raita, 1998				
		Unsupervised Learing from Dyadic Data; Hofmann and Puzicha, International Computer Science Institute, December 1998				
		SPIRE-Spatial Paradigm for Information Retrieval and Exploration, Spire website, 1999				
		Website Publication, SPIRE, at URL www.pnl.gov/infoviz/spire, dated at least as early as March 11, 2001.				
ı		Evaluating Similarity-Based Visualisations as Interfaces for Image Browsing; Kerry Rodden, Technical Report Number 543, September 2002				
		Eser Kandogan, "Star Coordinates: A Multi-dimensional Visualization Technique with Uniform Treatment of Dimensions", IBM Almaden Research Center, California (Date Unknown).				
		Xqvis: Interactive Data Visualization with Multidimensional Scaling; Buja, Swayne, Littman, Dean and Hoffman, November 29, 2001				
		Animating Multidimensional Scalign to Visualize N-Dimensional Data Sets; Bentley and Ward, IEEE, (1996)				
		30 Years of Multidimensional Multivariate Visualization; Wong and Bergeron (date unknown)				
		<u>Topic Islands – A Wavelet-Based Text Visualization System;</u> Miller, Wong, Brewster, Foote, Pacific Northwest National Laboratory (date unknown)				

	T	T
Examiner	Date	
Signature	Considered	}
_	 	

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

WEMMH/SB/08B (4/03)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Culturations	n for form 1.440D/	DTO.	,		Complete if Known	
Substitute	Substitute for form 1449B/PTO		Application Number	10/688,063		
INFORMATION DISCLOSURE				Filing Date	October 17, 2003	
ST	STATEMENT BY APPLICANT		First Named Inventor	Pak C. Wong		
,				Group Art Unit	2621	
(4	use as many shee	ets as r	ecessary)	Examiner Name		
Sheet	3	of	3	Attorney Docket Number	50005-149	

		OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	_
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s) publisher city and/or country where published	
		Visualizing the Full Spectrum of Document Relationships; Hetzler, Harris, Havre, Whitney, Pacific Northwest National Laboratory (date unknown)	
		Visualizing the Non-Visual: Spatial Analysis and Interaction with Information from Text Documents; Wise, Thomas, Pennock, Lantrip, Pottier, Schur, Crow, Pacific North Laboratory (date unknown)	
æ		The STARLIGHT Information Visualization System; Risch, Rex, Dowson, Walters, May, Moon, Pacific Northwest National Laboratory (date unknown)	Ī
74.		Multi-Faceted Insight Through Interoperable Visual Information Analysis Paradigms; Hetzler, Whitney, Martucci, Thomson, Pacific Northwest National Laboratory (Date unknown)	Ī
		Human Computer Interaction with Global information Spaces - Beyond Data Mining; Thomas, Cook, Crow, Hetzler, May, McQuerry, McVeety, Miller, Nakamura, Nowell, Whitney, Wong; Pacific Northwest National Laboratory (date unknown)	
_	<u>.</u>		
		-	
			L
Examiner	10	Date	_

Examiner Signature	Date Considered	

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

¹ Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.